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Application Serial No. 10/540,147

Attorney Docket No. PF030010

IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A coaxial structure microwave filter comprising a tube presenting a constant inner diameter and a fully metallized constant outer surface and an inner bar with a fully metallized outer profile following a periodic curve, the tube and the bar being realized in foam of a metallizable synthetic material with electrical characteristics approaching those of air, the inner bar having a largest diameter nearly equal to the inner diameter of the tube.

2. (Currently Amended) The filter according to claim 1, wherein the periodic curve is ~~a crenelation curve~~ includes a plurality of crenelations, the crenelations having dimensions identical from one crenelation to another.

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) The filter according to claim 1, wherein the periodic curve is ~~a crenelation function~~ includes a plurality of crenelations, the crenelations having dimensions different from one crenelation to another.

6. (Currently Amended) A coaxial structure microwave filter comprising a tube presenting a constant ~~inner~~ internal diameter and a fully metallized outer surface with, in an axial direction, a profile following a periodic curve and an inner bar with a constant fully metallized outer profile, the tube and the bar being realized in foam of a metallizable synthetic material with electrical characteristics approaching those of air, ~~the inner a largest diameter of the bar having a diameter nearly~~ being noticeably equal to the ~~inner internal~~ diameter of the tube.

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7. (Currently Amended) The filter according to claim 6, wherein the periodic curve ~~is a crenelation curve~~ includes a plurality of crenelations, the crenelations having dimensions identical from one crenelation to another.

8. (Currently Amended) The filter according to claim 6, wherein the periodic curve ~~is a crenelation curve~~ includes a plurality of crenelations, the crenelations having dimensions different from one crenelation to another.